

# Work Order ID 130767

Wednesday, March 25, 2015 11:27:41 AM

**\*130767\***

Page 1

Item ID: D4983-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Cargo Hook Assembly  
 Start Date: 3/25/2015 Start Qty: 1.00 **\*1\*** Cust Item ID:  
 Required Date: 3/25/2015 Req'd Qty: 1.00 **\*1\*** Customer:  
 Reference:

Approvals: Process Plan: MLS Date: 150325 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr          |
|----------|-----------------------|
| D4983    | <u>AF CY 15/03/25</u> |

100 0.00

**\*100\***

Purchasing Memo 0.00  
 Purchasing ISSUE PO: 27895  
 TO: RED BARN (DART EUGENE)  
 C OF C IS REQUIRED

CY 15/03/25 ①

110 Receive & Inspect for Damage & Mat'l Certs 0.00

**\*110\***

Packaging Memo 0.00  
 Packaging

1x SP15-05-20

120 QC5- Inspect part completeness to step on W/O 0.00

**\*120\***

QC Memo 0.00  
 Quality Control INSTALL D5066-1-3 PLACARDS AS PER DWG

*[Handwritten signature]*

Ref Batch . 01-16263-A-04

①

DMS  
38  
9-89

MAY 27 2015

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
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**Work Order ID 130767**

Wednesday, March 25, 2015 11:27:41 AM

**\*130767\***

Page 2

Item ID: D4983-041 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Cargo Hook Assembly  
Start Date: 3/25/2015 Start Qty: 1.00 **\*1\*** Cust Item ID:  
Required Date: 3/25/2015 Req'd Qty: 1.00 **\*1\*** Customer:  
Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

130

Identify as per dwg & Stock Location: ST 416

0.00

**\*130\***

Packaging

Memo

0.00

Packaging

DAB

27

9-00

MAY 27 2015

140

QC21- Final Inspection - Work Order Release

0.00

**\*140\***

QC

Memo

0.00

Quality Control

MAY 28 2015

MAY 28 2015

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
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|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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# Picklist Print

Wednesday, March 25, 2015 11:27:45 AM

Page 1

Work Order ID: 130767

**\*130767\***

Parent Item: D4983-041

**\*D4983-041\***

Parent Item Name: Cargo Hook Assembly

Start Date: 3/25/2015

Required Date: 3/25/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A NEW ISSUE 14-03-022 JLM VERIFIED BY:DD

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| D4983-041P                      |                        | Purchased     | No          |                     |                  |                 | Each               | 0.0000         |             | 1            |               |                |        |
| <b>*D4983-041P*</b>             |                        |               |             |                     |                  |                 |                    |                | <b>**</b>   |              |               |                |        |
| Cargo Hook Assembly             |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| D5066-1                         |                        | Purchased     | No          |                     |                  |                 | Each               | 0.0000         |             | 1            |               |                |        |
| <b>*D5066-1*</b>                |                        |               |             |                     |                  |                 |                    |                | <b>**</b>   |              |               |                |        |
| Cargo Hook Placard              |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |
| D5066-5                         |                        | Manufactured  | No          |                     |                  |                 | Each               | 28.0000        |             | 1            |               |                |        |
| <b>*D5066-5*</b>                |                        |               |             |                     |                  |                 |                    |                | <b>**</b>   |              |               |                |        |
| Placard (Load Limit)            |                        |               |             |                     |                  |                 |                    |                |             |              |               |                |        |

1X 8015-05-20

N/A

Location

Loc Qty

Loc Code

ST145

18

129338

18

ST459

10

128727

10

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
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| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

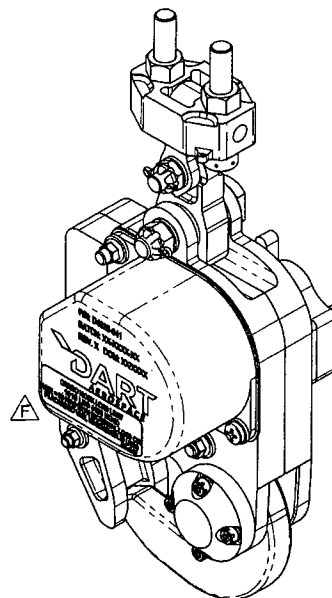
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| ITEM | QTY<br>-041 | P/N       | DESCRIPTION               |
|------|-------------|-----------|---------------------------|
|      | X           | D4983-041 | CARGO HOOK ASSY           |
| 1    | 1           | D4984-041 | HOOK SIDE PLATE ASSY      |
| 2    | 1           | D4985-041 | HOOK SIDE PLATE ASSY      |
| 3    | 1           | D4986-1   | CARGO HOOK LOCK           |
| 4    | 2           | D4987-1   | DUST SHIELD               |
| 5    | 1           | D4988-1   | KEEPERLESS ADAPTOR        |
| 6    | 1           | D4989-1   | LATCH SHAFT               |
| 7    | 1           | D4990-041 | ACTUATOR ASSEMBLY         |
| 8    | 1           | D4991-1   | LATCH ROLLER PIN          |
| 9    | 1           | D4992-1   | LATCH ROLLER              |
| 10   | 1           | D4993-1   | LATCH ROLLER DU BEARING   |
| 11   | 1           | D4994-1   | LATCH                     |
| 12   | 2           | D4995-1   | ACTUATOR BUSHING          |
| 13   | 1           | D4996-041 | HOOK ASSEMBLY             |
| 14   | 1           | D4997-1   | LOAD BEAM BUMPER          |
| 15   | 2           | D4998-1   | LOCK BUMPER               |
| 16   | 1           | D4999-1   | CLOCK SPRING COVER        |
| 17   | 1           | D5000-1   | CLOCK SPRING              |
| 18   | 1           | D5001-1   | LOCK SPRING               |
| 19   | 2           | D5002-1   | LINK PIN                  |
| 20   | 1           | D5003-1   | LINK                      |
| 21   | 1           | D5005-1   | SOLENOID COVER GASKET     |
| 22   | 1           | D5006-1   | SOLENOID COVER            |
| 23   | 1           | D5007-1   | MANUAL RELEASE COVER      |
| 24   | 1           | D5009-1   | ACTUATOR SPRING           |
| 25   | 1           | D5010-041 | HOOK INTERFACE ASSY       |
| 26   | 1           | D5011-041 | HOOK SOLENOID ASSY        |
| 27   | 2           | D5013-3   | BUSHING                   |
| 28   | 1           | D5020-1   | WIRE GUIDE/GRIP           |
| 29   | 1           | D5044-1   | DOWEL PIN                 |
| 30   | 2           | D5044-3   | DOWEL PIN                 |
| 31   | 2           | D5045-1   | SPLIT DU BEARING          |
| 32   | 1           | D5056-1   | HOOK PIN                  |
| 33   | 2           | D5057-1   | NYLON WASHER              |
| 34   | 2           | D5057-3   | NYLON WASHER              |
| 35   | 1           | D5065-1   | HOOK MANUAL RELEASE LEVER |
| 36   | 1           | D5066-1   | PLACARD                   |
| 37   | 1           | D5066-13  | PLACARD                   |

# NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: LASER ETCH P/N D4983-041, BATCH XX-XXXX-XX, REV. X, DOM XX/XXXX  
LOCATE APPROX AS SHOWN USING APPROX LETTERING HEIGHT  
AS SHOWN. PER DART EUGENE SPEC QMSI-6.2.2.
- 7) WEIGHT: 5.50 lbs
- 8) WIRING INSTALLATION PER AC43.13-1B CHAPTER 11

| ITEM | QTY<br>-041 | P/N            | DESCRIPTION                  |
|------|-------------|----------------|------------------------------|
| 38   | 1           | AN3C15A        | BOLT                         |
| 39   | 1           | AN310C6        | NUT, CASTELLATED             |
| 40   | 2           | AN4C15A        | BOLT                         |
| 41   | 1           | AN4C17A        | BOLT                         |
| 42   | 2           | MS16624-4028   | RETAINING RING               |
| 43   | 4           | MS16624-5012-1 | RETAINING RING               |
| 44   | 1           | MS171532       | SPRING PIN                   |
| 45   | 3           | MS21043-3      | NUT, SELF-LOCKING            |
| 46   | 3           | MS21043-4      | NUT, SELF-LOCKING            |
| 47   | 1           | MS24665-153    | COTTER PIN                   |
| 48   | 1           | MS24694-C7     | SCREW, CSK 100"              |
| 49   | 8           | MS24674-9      | SOCKET HEAD CAP SCREW        |
| 50   | 1           | MS27039C1-08   | SCREW, PAN-HEAD              |
| 51   | 4           | MS35338-137    | LOCK WASHER                  |
| 52   | 5           | NAS1149C0363R  | WASHER                       |
| 53   | 6           | NAS1149C0463R  | WASHER                       |
| 54   | 1           | NAS1149C0663R  | WASHER                       |
| 55   | 1           | NAS1149C0863R  | WASHER                       |
| 56   | 1           | D5116-5        | WIRE M22759/41-14-9          |
| 57   | 1           | D5116-7        | WIRE M22759/41-14-9          |
| 58   | 1           | 1-480319       | CONNECTOR                    |
| 59   | 1           | XPF-1/8        | EXPANDABLE SLEEVE - 48" LONG |
| 60   | 2           | BT1.5I-M       | TIE WRAP                     |

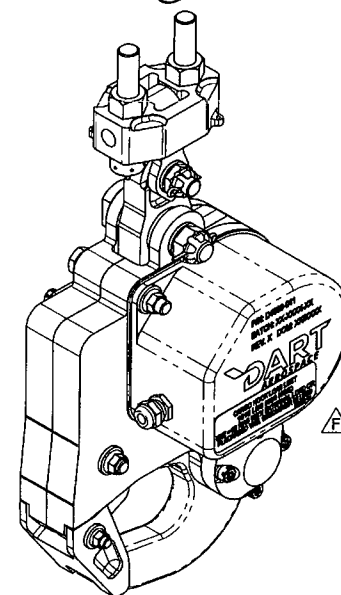


**D4983-041 CARGO HOOK ASSY**

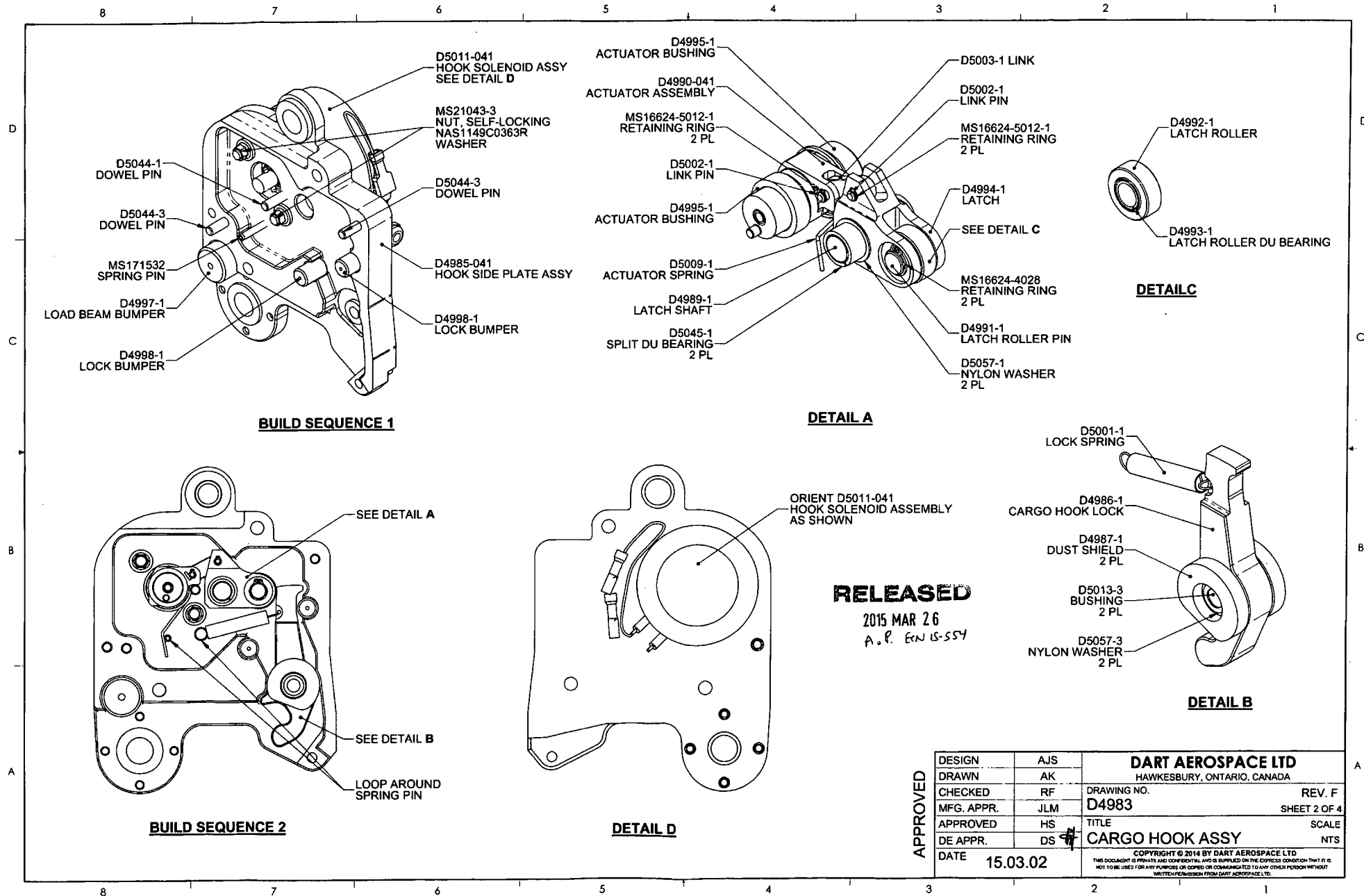
**RELEASE**

2015 MAR 26  
A.P. ECN 15-554

W/O 130767  
6215/03/30



|            |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                           |              |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| F          | D5066-13 WAS D5066-5 (ZN A5-1, C2-1, B8-1 AND C4-3)                                                                                                                                                                                                                     | AK                                                                                                                                                                                                                                                                                        | 15.03.02     |
| E          | ADDED ITEMS 56, 57, 58, 59, 60 TO BOM (ZN C5-1). ADDED NOTE 8 (ZN A8-1). UPDATED D5066-5 PLACARD (ZN A5-1, C2-1 AND C4-3). ADDED SHEET 4 (BUILD SEQUENCE 4)                                                                                                             | AK                                                                                                                                                                                                                                                                                        | 15.02.08     |
| D          | ITEM 50 WAS MS27039C0814 (DRAFTING ERROR). ADDED NOTE 6.                                                                                                                                                                                                                | AJS                                                                                                                                                                                                                                                                                       | 14.12.15     |
| C          | PICTORIAL UPDATE FOR CHANGES TO D5010-041 SUB ASSY. PICTORIAL UPDATE TO ITEM 28. ADDED ITEM 37 & 38. QTY FOR ITEM 44 WAS 4 (-9 DELETED). REDESIGNED D4985-041, D5007-1 AND D5065-1 AND UPDATED RELATED HARDWARE LENGTHS. ALL NASM HARDWARE REPLACED WITH ANMS HARDWARE. | AJS                                                                                                                                                                                                                                                                                       | 14.06.24     |
| B          | SHT 1 PARTS LIST: ITEM 42 WAS -151. ADDED ITEM 43. QTY FOR ITEM 44 WAS 8. ITEM 47 PART NUMBER WAS NAS1149C0832R. ITEM 51 PART NUMBER WAS NAS1149C0816R. ITEM 52 PART NUMBER WAS NASM24694-C4. REASON: DRAFTING ERROR.                                                   | AJS                                                                                                                                                                                                                                                                                       | 14.03.13     |
| A          | NEW ISSUE                                                                                                                                                                                                                                                               | AJS                                                                                                                                                                                                                                                                                       | 14.02.18     |
| REV.       | DESCRIPTION                                                                                                                                                                                                                                                             | BY                                                                                                                                                                                                                                                                                        | DATE         |
| DESIGN     | AJS                                                                                                                                                                                                                                                                     | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                  |              |
| DRAWN      | AK                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                           |              |
| CHECKED    | RF                                                                                                                                                                                                                                                                      | DRAWING NO.                                                                                                                                                                                                                                                                               | REV. F       |
| MFG. APPR. | JLM                                                                                                                                                                                                                                                                     | D4983                                                                                                                                                                                                                                                                                     | SHEET 1 OF 4 |
| APPROVED   | HS                                                                                                                                                                                                                                                                      | TITLE                                                                                                                                                                                                                                                                                     | SCALE        |
| DE APPR.   | DS                                                                                                                                                                                                                                                                      | CARGO HOOK ASSY                                                                                                                                                                                                                                                                           | NTS          |
| DATE       | 15.03.02                                                                                                                                                                                                                                                                | <small>COPYRIGHT © 2014 BY DART AEROSPACE LTD<br/> THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |

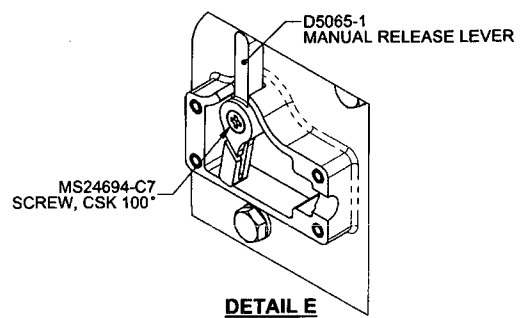


APPROVED

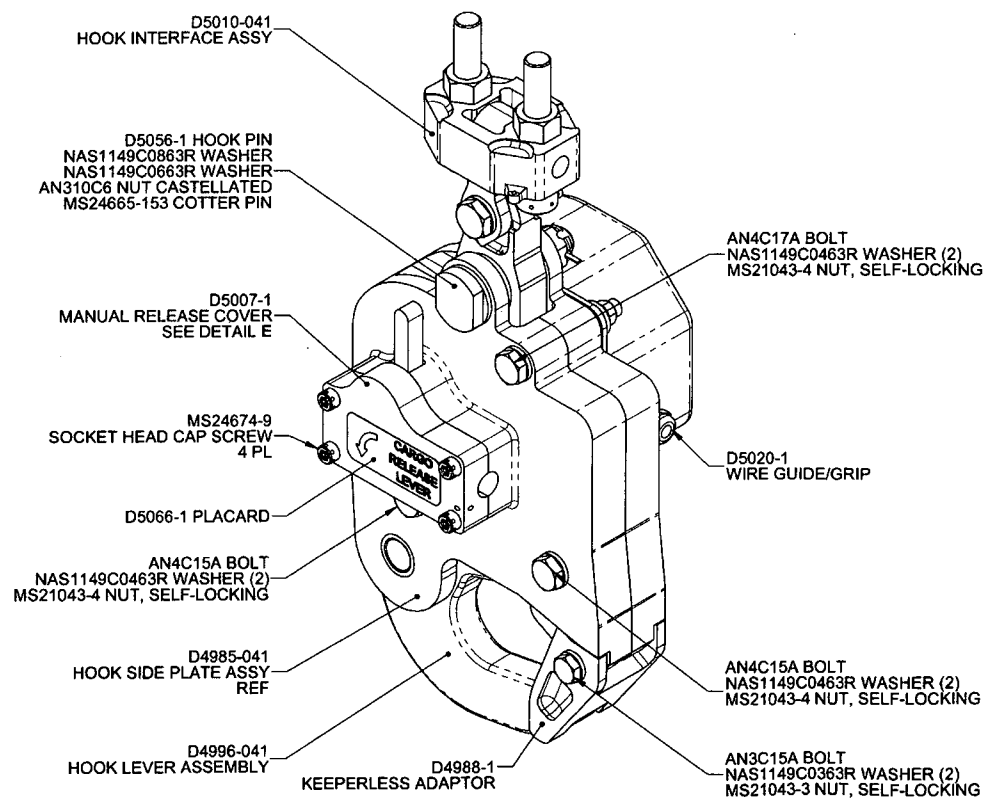
|                                                                                                                                                                                                                                |          |                                        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                         | AJS      | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                          | AK       | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                        | RF       | DRAWING NO.                            | REV. F       |
| MFG. APPR.                                                                                                                                                                                                                     | JLM      | <b>D4983</b>                           | SHEET 2 OF 4 |
| APPROVED                                                                                                                                                                                                                       | HS       | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                       | DS       | <b>CARGO HOOK ASSY</b>                 | NTS          |
| DATE                                                                                                                                                                                                                           | 15.03.02 | COPYRIGHT © 2014 BY DART AEROSPACE LTD |              |
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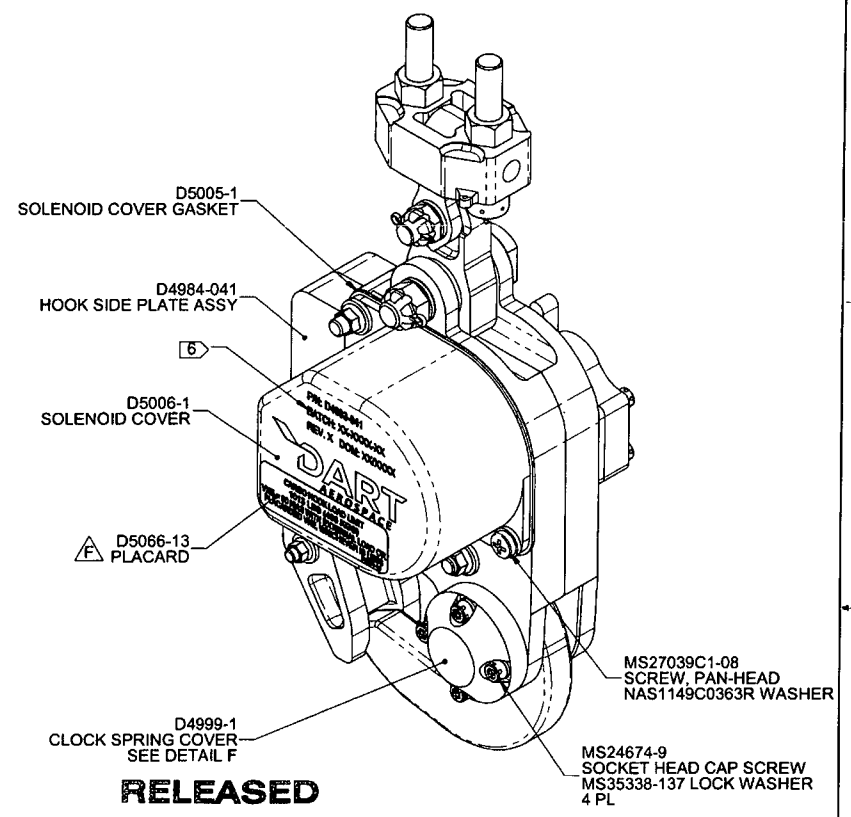
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**DETAIL E**

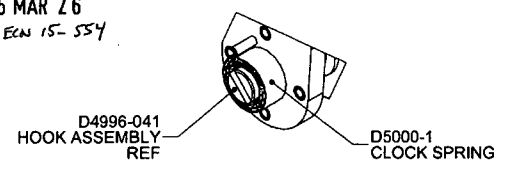


**BUILD SEQUENCE 3**



**RELEASED**

2015 MAR 26  
A.P. EKN 15-554



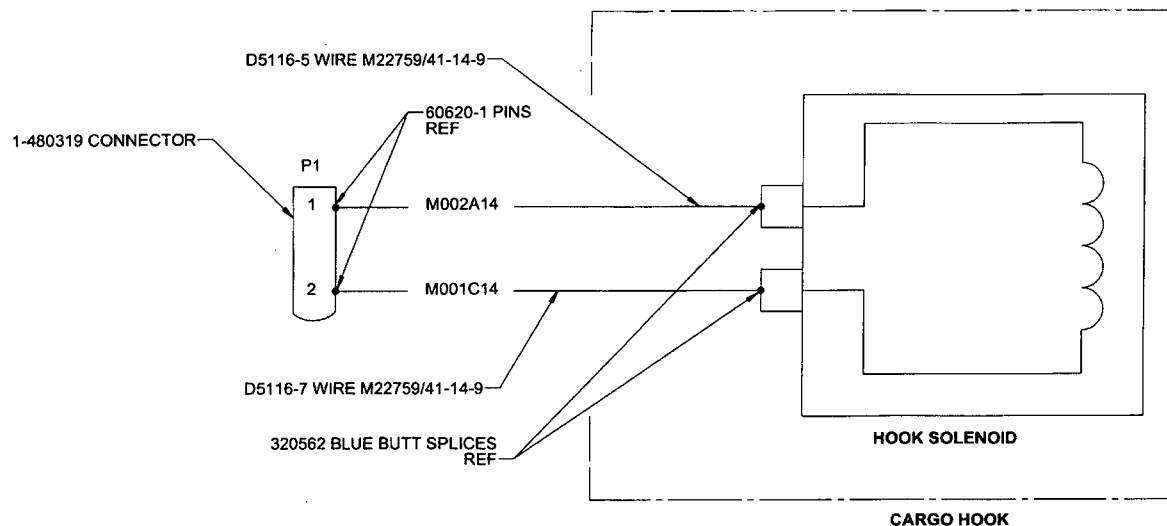
**DETAIL F**

|          |            |     |                                                                                                                                                                                                                                                                                |              |
|----------|------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| APPROVED | DESIGN     | AJS | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                       |              |
|          | DRAWN      | AK  |                                                                                                                                                                                                                                                                                |              |
|          | CHECKED    | RF  | DRAWING NO.                                                                                                                                                                                                                                                                    | REV. F       |
|          | MFG. APPR. | JLM | <b>D4983</b>                                                                                                                                                                                                                                                                   | SHEET 3 OF 4 |
|          | APPROVED   | HS  | TITLE                                                                                                                                                                                                                                                                          | SCALE        |
|          | DE APPR.   | DS  | <b>CARGO HOOK ASSY</b>                                                                                                                                                                                                                                                         | NTS          |
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8 7 6 5 4 3 2 1

# BUILD SEQUENCE 4 INSTRUCTIONS:

1. REMOVE D5006-1 SOLENOID COVER
2. INSTALL PINS ON THE D5116-5/-7 WIRES TO THE 1-480319 CONNECTOR. SEE FIGURE BELOW FOR DETAILS
3. INSTALL XPF-1/8 EXPANDABLE SLEEVE AT THE CONNECTOR END AROUND D5116-5/-7 WIRES AND SECURE USING A SMALL TIE WRAP
4. INSTALL D5116-5/-7 WIRES AND XPF-1/8 EXPANDABLE SLEEVE THROUGH D5020-1 WIRE GUIDE/GRIP ON THE SOLENOID COVER
5. INSTALL TIE WRAP ON EXPANDABLE SLEEVE AND WIRES INSIDE D5006-1 SOLENOID COVER
6. CONNECT D5116-5/-7 WIRES TO SOLENOID WIRES USING 320562 BLUE BUTT SPLICES
7. RE-INSTALL D5006-1 SOLENOID COVER
8. TIGHTEN D5020-1 WIRE GUIDE/GRIP



## BUILD SEQUENCE 4

**RELEASED**

2015 MAR 26

A.P. Ecn 15-554

APPROVED

|            |          |                                                                                                                                                                                                                                                                          |              |
|------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | AJS      | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                 |              |
| DRAWN      | AK       |                                                                                                                                                                                                                                                                          |              |
| CHECKED    | RF       | DRAWING NO.                                                                                                                                                                                                                                                              | REV. F       |
| MFG. APPR. | JLM      | <b>D4983</b>                                                                                                                                                                                                                                                             | SHEET 4 OF 4 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                    | SCALE        |
| DE APPR.   | DS       | <b>CARGO HOOK ASSY</b>                                                                                                                                                                                                                                                   | NTS          |
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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO27895**

Purchase Order Date 3/25/2015

PO Print Date 3/25/2015

Page Number 1 of 2

**Order From :**

VU-RED001

RED BARN MACHINE INC.  
190 S DANEBO AVE.  
EUGENE, OR 97402  
USA

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 541-344-9953

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx Overnight collect

**Ship Acct:**

**Buyer**

Chantal-Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

Destination-Collect

| Line Nbr | Reference Vendor Part Number<br>Line Comments<br>Delivery Comments                                                             | Description/<br>Mfg ID         | Req Date/<br>Taxable<br>Promise Date | CD | Req Qty/<br>Unit of<br>Measure | PO Unit Price | Extended Price |
|----------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|----|--------------------------------|---------------|----------------|
| 1        | D4983-041P ✓<br><br>AS PER DWG D4983 REV. F<br>B130763,B130764,B130765,B130766,B130767,B130768,B130769,B130771,B130772,B130773 | Cargo Hook Assembly            | 4/2/2015<br>Yes<br>4/2/2015<br>5/25  | FN | 10.00<br>Each                  | \$6,048.00    | \$60,480.00    |
|          |                                                                                                                                |                                |                                      |    |                                | Line Total:   | \$60,480.00    |
| 2        | D5051-041P<br><br>AS PER DWG D5051 REV. C<br>B130775                                                                           | Cyclic Switch Housing Assembly | 4/2/2015<br>Yes<br>4/2/2015<br>5/25  | FN | 10.00<br>Each                  | \$186.00      | \$1,860.00     |
|          |                                                                                                                                |                                |                                      |    |                                | Line Total:   | \$1,860.00     |

Note:

3/25/2015



Pack Slip: 18299  
18299

**Packing Slip**

Page: 1 of 1

**Ship To:**

DART AEROSPACE LTD.  
1270 ABERDEEN STREET  
HAWKESBURY ONTARIO K6A 1K7  
CANADA

Phone: 800-556-4166  
Fax: 714-755-2995

**Sold To:**

CHANTAL LAVOIE  
DART AEROSPACE LTD.  
1270 ABERDEEN STREET  
HAWKESBURY ONTARIO K6A 1K7  
CANADA

Phone: 800-556-4166  
Fax: 613-632-4443  
dkennedy@dartaero.com

Ship Date: 5/18/2015

Ship Via: FEDEX INTL P1

F.O.B.: EUGENE, OR

Order: 16263

PO: 27895

Salesperson: ERIC BACON

FEDEX OVERNIGHT COLLECT

**PO**

| Line | Planned Qty | Shipped Qty       | Part Number/Description        | Rev |
|------|-------------|-------------------|--------------------------------|-----|
|      | 10.00       | 10.00 <i>KB</i> ✓ | D4983-041P                     |     |
|      | 10.00       | 10.00 <i>KB</i>   | CARGO HOOK ASSEMBLY            |     |
|      |             |                   | D5051-041P                     |     |
|      |             |                   | CYCLIC SWITCH HOUSING ASSEMBLY |     |

Dart Aerospace hereby certifies that all materials used in the manufacturing of our tools are new and meets all specifications called out in all applicable blueprints and drawings. All standard machining and manufacturing procedures are strictly followed.

*[Signature]*  
Signed

PackSlip:8.03:01

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Eugene, OR, USA 97402  
dartaerospace.com

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F 1 541 344-3863

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Mission  
Ready.